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APPLICANT : SAMSUNG ELECTRON CO LTD;

INVENTOR : LEE YUNG-LYUL;

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TITLE : SIGNAL ADAPTIVE FILTERING
METHOD FOR DECREASING RINGING
NOISE AND ITS FILTER

ABSTRACT : PROBLEM TO BE SOLVED: To remove ringing noise from video compressed-decompressed based on a block filtering pixels belonging to a filter window by each pixel through the use of the already decided weighting value of each according to whether or not binary edge map information within the filter window includes edge information, to generate a new pixel value.

SOLUTION: A gradation arithmetic part 110 finds an edge pixel from compress-restored video data including the ringing noise of a video storing part 100 and a binary edge map generation part 120 generates binary edge map information. A filter deciding part 130 judges whether a local area on a binary edge map where the filter window of an already decided size is an edge area or an equal quality area to output data to a weighting filter 150 at the time of the edge area and to output data to an average filter 140 at the time of the equal quality area. Thereby, ringing noise is removed to improve the quality of the compressed-decompressed video.

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